After Final Office Action of July 16, 2008

AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended) A data sending/receiving device for issuing a digital certificate to a new data sending/receiving device, when the data sending/receiving device causes the new data sending/receiving device to participate in a <u>wireless</u> network formed by <u>a plurality of data</u> sending/receiving devices each having a digital certificate that certifies authority to participate in the <u>wireless</u> network; the data sending/receiving device comprising:

a first communication section which performs <u>wireless</u> communication in the wireless network;

a second communication section, to which the new data sending/receiving device can be connected by a wired connection means; and

a control section which performs a dynamic-process of issuing the digital certificate for the new data sending/receiving device through the wired connection means-to-enable-a secure communication protocol before the creation of the digital certification for the individual digital-certificate; wherein

when the new data sending/receiving device is connected to the second communication section, the control section judges whether or not the new data sending/receiving device is a device having a communication means that can communicate in the <u>wireless</u> network, in accordance with device type information of the new data sending/receiving device received via the second communication section from the new data sending/receiving device, and

if the new data sending/receiving device is judged as a device having athe communication means that can communicate in the <u>wireless</u> network, the control section creates the digital certificate for the new data sending/receiving device by using a device identifier specific to the new data sending/receiving device, the device identifier being received via the second communication section from the new data sending/receiving device through the wired connection means, and sends the created digital certificate via the second communication section to the new data sending/receiving device through the wired connection means.

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Claim 2. (Currently Amended) The data sending/receiving device according to

claim 1, wherein even when the new data sending/receiving device is judged as being the

device having the communication means which can participate in the <u>wireless</u> network, if the new data sending/receiving device already has a digital certificate, the control section

does not issue a new digital certificate.

Claim 3. (Currently Amended) The data sending/receiving device according to

claim 1, wherein even when the new data sending/receiving device is judged as being the

device having the communication means which can participate in the wireless network and

the new data sending/receiving device already has a digital certificate, if the digital

certificate that is already held in the new data sending/receiving device is for another

network different from the wireless network, the control section creates a digital

certificate for the new data sending/receiving device by using the device identifier and

sends the created digital certificate through the wired connection means to the new data

sending/receiving device.

Claim 4. (Currently Amended) A data sending/receiving device for issuing a digital

certificate to a new data sending/receiving device, when the data sending/receiving device

causes the new data sending/receiving device to participate in a $\underline{\text{wireless}}$ network formed

by a plurality of data sending/receiving devices including said data sending/receiving

device and another data sending/receiving device each having a digital certificate that certifies authority to participate in the wireless network; the data sending/receiving device

comprising:

a <u>first</u> communication section which performs <u>wireless</u> communication in the

wireless network; and

a control section which performs a dynamic-process of issuing the digital certificate

through the wired connection means to enable a secure communication protocol before the

creation of the digital certification for the individual digital certificate; wherein

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when the new data sending/receiving device is connected to a second communication section of said another data sending/receiving device by a wired connection means, the control section of said data sending/receiving device judges whether or not the new data sending/receiving device is a device having a communication means that can communicate in the wireless network, in accordance with device type information of the new data sending/receiving device received via a second communication section of said another data sending/receiving device through the wired connection means from the new data sending/receiving device; and

if the new data sending/receiving device is judged as a device having a communication means that can communicate in the wireless network, the control section of said data sending/receiving device creates a digital certificate for the new data sending/receiving device by using a device identifier specific to the new data sending/receiving device, the device identifier being received through the wired connection means via the said another data sending/receiving device to which the new data sending/receiving device is connected and via the communication section from the new data sending/receiving device, and controls to send the created digital certificate through the wired connection means via the communication section and via thesaid another data sending/receiving device to which the new data sending/receiving device to which the new data sending/receiving device is connected.

Claim 5. (Currently Amended) The data sending/receiving device according to claim 4, wherein even when the new data sending/receiving device is judged as being the device having the communication means which can participate in the <u>wireless</u> network, if the new data sending/receiving device already has a digital certificate, the control section does not issue a new digital certificate.

Claim 6. (Currently Amended) The data sending/receiving device according to claim 4, wherein even when the new data sending/receiving device is judged as being the device having the communication means which can participate in the <u>wireless</u> network and the new data sending/receiving device already has a digital certificate, if the digital

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certificate that is already held in the new data sending/receiving device is for another network different from the <u>wireless</u>_network, the control section creates a digital certificate for the new data sending/receiving device by using the device identifier and sends the created digital certificate <u>through said another data sending/receiving device and</u> the wireless connection means to the new data sending/receiving device.

Claim 7. (Currently Amended) A digital certificate issuing method for issuing a digital certificate to a new data sending/receiving device when the new data sending/receiving device participates in a <u>wireless</u> network formed by a plurality of data sending/receiving devices each having a digital certificate that certifies authority to participate in the <u>wireless</u> network, the method comprising the steps of:

connecting the new data sending/receiving device through a wired connection means to a certain data sending/receiving device participating in the <u>wireless</u> network-in order to enable a secure communication protocol before the creation of the digital certification for the individual digital certificate;

judging by a certain data sending/receiving device, whether or not the new data sending/receiving device is a device having a communication means that can communicate in the <u>wireless</u> network in accordance with device type information of the new data sending/receiving device received <u>through the wired connection means</u> from the new data sending/receiving device; and

if the new data sending/receiving device is judged as being a device having a communication means that can communicate in the <u>wireless</u> network, creating a digital certificate for the new data sending/receiving device by using a device identifier specific to the new data sending/receiving device from the new data sending/receiving device through the wired connection means and sending the created digital certificate to the new data sending/receiving device through the wired connection means, by the certain data sending/receiving device.

Claim 8. (Currently Amended) The digital certificate issuing method according to

claim 7, wherein even when the new data sending/receiving device is judged as being the device having the communication means which can participate in the <u>wireless</u> network, if the new data sending/receiving device already has a digital certificate, a new digital certificate is not issued.

Claim 9. (Currently Amended) The digital certificate issuing method according to claim 7, wherein even when the new data sending/receiving device is judged as being the device having the communication means which can participate in the <u>wireless</u> network and the new data sending/receiving device already has a digital certificate, if the digital certificate that is already held in the new data sending/receiving device is for another network different from the <u>wireless</u> network, the creating of a digital certificate for the new data sending/receiving device by using the device identifier and the sending of the created digital certificate <u>through the wired connection means</u> to the new data sending/receiving device are performed.

Claim 10. (Original) The digital certificate issuing method according to claim 7, wherein the new data sending/receiving device verifies validity of the received digital certificate.

if it is confirmed that the validity exists, the new data sending/receiving device notifies the data sending/receiving device which has issued the digital certificate that the digital certificate has been accepted, and

if it is not confirmed that the validity exists, the new data sending/receiving device requests the data sending/receiving device which has issued the digital certificate to issue a digital certificate again.

Claim 11. (Currently Amended) A digital certificate issuing method for issuing a digital certificate to a new data sending/receiving device when the new data sending/receiving device participates in a <u>wireless</u> network formed by a plurality of data sending/receiving devices including at least a first data sending/receiving device and a

second data sending/receiving device each having a digital certificate that certifies authority to participate in the wireless network, the method comprising the steps of:

connecting the new data sending/receiving device through a wired connection means to a certain the second data sending/receiving device participating in the wireless network in order to enable a secure communication protocol before the creation of the digital certificate;

judging, by one of the first data sending/receiving devices device forming the wireless network, whether or not the new data sending/receiving device is a device having a communication means that can communicate in the wireless network in accordance with device type information of the new data sending/receiving device received through the wired connection means and the second data sending/receiving device from the new data sending/receiving device; and

if the one of the first data sending/receiving devices device forming the network, which is other than the second data sending/receiving device to which the new data sending/receiving device is connected through the wired connection means, judges that the new data sending/receiving device is judged as being a device having a communication means that can communicate in the wireless network, creating a digital certificate for the new data sending/receiving device by using a device identifier specific to the new data sending/receiving device received via the second data sending/receiving device, to which the new data sending/receiving device is connected through the wired connection means, from the new data sending/receiving device and sending the created digital certificate via the second data sending/receiving device, to which the new data sending/receiving device is connected through the wired connection means, to the new data sending/receiving device is connected through the first data sending/receiving devices device.

Claim 12. (Currently Amended) The digital certificate issuing method according to claim 11, wherein even when the new data sending/receiving device is judged as being a device having a communication means which can participate in the <u>wireless</u> network, if the new data sending/receiving device already has a digital certificate, a new digital

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certificate is not issued.

Claim 13. (Currently Amended) The digital certificate issuing method according to claim 11, wherein even when the new data sending/receiving device is judged as being the device having the communication means which can participate in the <u>wireless</u> network and the new data sending/receiving device already has a digital certificate, if the digital certificate that is already held in the new data sending/receiving device is for another network different from the <u>wireless</u> network, the creating of a digital certificate for the new data sending/receiving device by using the device identifier and the sending of the created digital certificate to the new data sending/receiving device are performed.

Claim 14. (Original) The digital certificate issuing method according to claim 11, wherein the new data sending/receiving device verifies validity of the received digital certificate.

if it is confirmed that the validity exists, the new data sending/receiving device notifies the data sending/receiving device which has issued the digital certificate that the digital certificate has been accepted, and

if it is not confirmed that the validity exists, the new data sending/receiving device requests the data sending/receiving device which has issued the digital certificate to issue a digital certificate again.

Claim 15. (Currently Amended) A computer readable storage medium having thereon computer executable program for performing a dynamic-process of issuing the digital certificate through a wired connection means creating a wireless network, the computer program when executed causes a processor to execute steps of:

judging by a certain data sending/receiving device that is one of the data sending/receiving devices forming the <u>wireless</u> network and is connected through a wired connection means to the new data sending/receiving device, whether or not the new data sending/receiving device is a device having a communication means that communicates in Application No. 10/589,400 Amendment dated October 10, 2008 After Final Office Action of July 16, 2008

the <u>wireless</u> network in accordance with device type information having the new data sending/receiving device received <u>through the wired connection means</u> from the new data sending/receiving device; and

if the new data sending/receiving device is judged as being a device having a communication means that can communicate in the <u>wireless</u> network, creating a digital certificate for the new data sending/receiving device by using a device identifier specific to the new data sending/receiving device received <u>through the wired connection means</u> from the new data sending/receiving device and sending the created digital certificate <u>through the wired connection means</u> to the new data sending/receiving device, by the certain data sending/receiving device.